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| FORM PTO-1390<br>MODIFIED   |   | 1390  | U.S. DEPARTMENT C  | OF CO SCE PATENT A    | ATTORNEY'S KET NUMBER 540-510 |   |  |  |  |  |  |  |  |  |
|---|---|---|--|-----------------------|-------------------------------|---|--|--|--|--|--|--|--|--|
|   |   |   | NSMITTAL LETTE   |                       |                               | U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)    |  |  |  |  |  |  |  |  |
| DESIGNATED/ELECTED OFFICE (DO/EO/US)  CONCERNING A FILING UNDER 35 U.S.C. 371 |   |   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED |   |   |  |                       |                               |   |  |  |  |  |  |  |  |  |
|   |   | PCT/GE  | 302/05789  | 19 Dec                | ember 2002                    | 09 January 2002                                       |  |  |  |  |  |  |  |  |
| TITL  | TITLE OF INVENTION  IMPROVEMENTS IN OR RELATING TO UNDERWATER VEHICLES  |   |  |                       |                               |   |  |  |  |  |  |  |  |  |
|   |   |   |  | HOVEMENTS IN OR       | RELATING TO UNDER             | WATER VEHICLES  |  |  |  |  |  |  |  |  |
| APP   | LICA  | NT(S) F   | OR DO/EO/US  | <u>.</u>              | TULL, M.                      |   |  |  |  |  |  |  |  |  |
| App   | licant  | herewit   | h submits to the Unite   | ed States Designated  | Elected Office (DO/EO/        | US) the following items and other information:        |  |  |  |  |  |  |  |  |
| 1.  | $\boxtimes$   | This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 2.  |   | This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 3.  | ⊠ •   | This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.                         |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 4.  | $\boxtimes$   | The U.S. has been elected by the expiration of 19 months from the priority date (Article 31).   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 5.  | A co  | copy of the International Application as filed (35 U.S.C. 371(c)(2)).   |  |                       |                               |   |  |  |  |  |  |  |  |  |
|   | a.  | is attached hereto (9 pages specification, claims & abstract (11 claims), 7 sheets drawings).   |  |                       |                               |   |  |  |  |  |  |  |  |  |
|   | b.  | has been communicated by the International Bureau.  |  |                       |                               |   |  |  |  |  |  |  |  |  |
|   | c.  | is  | s not required, as the   | application was filed | in the United States Rec      | eiving Office (RO/US).                                |  |  |  |  |  |  |  |  |
| 6.  |   | An English language translation   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| •   | a.  of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto ( pages specification, cla |   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| a)  | b.  | estract ( claims), sheets drawings, page Certificate of Translation).  — of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371(c)(5)). |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 7.  |   |   |  |                       |                               | icle 19 (35 U.S.C. 371(c)(3))                         |  |  |  |  |  |  |  |  |
|   | <u> —</u><br>а.   |   |  | •                     | nmunicated by the Interr      | •   |  |  |  |  |  |  |  |  |
|   | b.  | _   | ·  | •                     | -                             |   |  |  |  |  |  |  |  |  |
|   | C.  | <ul> <li>have been communicated by the International Bureau.</li> <li>have not been made; however, the time limit for making such amendments has NOT expired.</li> </ul>                  |  |                       |                               |   |  |  |  |  |  |  |  |  |
|   | d.  | _   | ave not been made a  |                       | J                             | ·   |  |  |  |  |  |  |  |  |
| 8.  |   |   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| <b>9</b> .  | <u> —</u><br>а.   | `   | an oath or declaration   |                       |                               |   |  |  |  |  |  |  |  |  |
|   | b.  |   | Declaration was submitted to the International Bureau during International Phase (see copies of Declaration ( page 7/RO/101 and Form PCT/IB/371 and first page of printed publication acknowledging receipt thereof attached). |                       |                               |   |  |  |  |  |  |  |  |  |
| 10.   | See   | item 6.t  | o. above.  | , •                   |                               | acknowledging receipt thereor attached).              |  |  |  |  |  |  |  |  |
| 11.   | Item  | ns 11 To 20 below concern document(s) or information included:  An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.  |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 12.   | $\boxtimes$   | An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.  |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 13.   | ⊠   | A FIRST preliminary amendment.  |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 14.   |   | A SECOND or SUBSEQUENT preliminary amendment.   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 15.   |   | A substitute specification.   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 16.   |   | A change of power of attorney and/or address letter.  |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 17.   |   | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.  |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 18.   |   | A second copy of the published international application under 35 U.S.C. 154(d)(4).   |  |                       |                               |   |  |  |  |  |  |  |  |  |
| 19.   |   |   |  |                       |                               | plication under 35 U.S.C. 154(d)(4).                  |  |  |  |  |  |  |  |  |
| 20.   | ☒   |   |  |                       |                               | ed, 7 Sheets of Formal Drawings, International Search |  |  |  |  |  |  |  |  |
|   |   |   | ch Report and 3 Non-l  |                       |                               | , . c. otto or . ottoa brannigo, informational obulon |  |  |  |  |  |  |  |  |

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| U.S. APPLICATION NO? (III   | S. APPLICATION NO? (IT IN THE 37 C.F. III) .5 INTERNATIONAL APPLICATION NO PCT/GB02/05789 |                  |                   |               |            | ATTORNEY'S DOCKET NUMBER 540-510 |                     |                           |          |              |  |  |
|---|---|------------------|-------------------|---------------|------------|----------------------------------|---------------------|---------------------------|----------|--------------|--|--|
| 21.   The following fees are submitted:   |   |                  |                   |               |            |                                  |                     | CALCULATIONS PTO USE ONLY |          |              |  |  |
| BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5):  Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1080.00  |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| International pro<br>USPTO but Inte   |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| International probut international  |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| International probut all claims di  |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| International pro<br>and all claims s   |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| .)  | EE AMOUNT =   | \$               | 920.00            |               |            |                                  |                     |                           |          |              |  |  |
| Surcharge of \$130.00   |   | \$               | 0.00              |               |            |                                  |                     |                           |          |              |  |  |
| months from the earliest claimed priority date ( CLAIMS NUMBER FILED  |   |                  | NUMBER EXTRA RATE |               |            | RATE                             | Ť                   | 0.00                      | L        |              |  |  |
| Total Claims  | 10  | minus 20         |                   | 0             | X          | \$18.00                          | \$                  | 0.00                      |          |              |  |  |
| Independent Claims  | 2   | minus 3          |                   | 0             | Х          | \$86.00                          |                     | 0.00                      |          |              |  |  |
| MULTIPLE DEPENDE  |   |                  |                   |               |            | 290.00                           | \$                  | 0.00                      | <u> </u> |              |  |  |
| Petition is hereby mad  |   |                  |                   |               | ng date of | this paper and                   | \$                  | 0.00                      |          |              |  |  |
| attachment(s) (\$110.0  | JO/ i monin; ş  | 420.00/2 Mor     |                   |               | OVE CAL    | CULATIONS =                      | \$                  | 920.00                    |          |              |  |  |
| Applicant claims  | small entity s  | status. See 3    |                   |               |            |                                  | ۳                   | 320.00                    |          |              |  |  |
| <ul> <li>are reduced by 1</li> </ul>  |   |                  |                   |               |            |                                  |                     | 0.00                      |          |              |  |  |
|   |   |                  |                   |               |            | SUBTOTAL =                       | \$                  | 920.00                    |          |              |  |  |
| Processing fee of \$130   |   |                  |                   |               | 20 🔲 30    | )                                |                     | 0.00                      |          |              |  |  |
| nonths from the earlie  | st claimed pi   | riority date (3) | C.F.H. 1.492(     |               | OTAL NA    | TIONAL FEE =                     | \$                  | 0.00<br><b>920.00</b>     | -        |              |  |  |
| Fee for recording the   | enclosed ass  | ignment (37 C    | FR 121(h))        |               |            |                                  | Φ                   | 520.00                    | -        |              |  |  |
| accompanied by an ap  |   | \$               | 40.00             |               |            |                                  |                     |                           |          |              |  |  |
| Fee for Petition to Rev   |   |                  |                   |               |            |                                  | \$                  | 0.00                      |          |              |  |  |
|   |   |                  |                   | тот           | AL FEES    | ENCLOSED =                       | \$ 960.00           |                           |          | ,            |  |  |
|   |   |                  |                   |               |            |                                  |                     | Amount to be:             |          |              |  |  |
|   |   |                  |                   |               |            |                                  | refunded<br>Charged |                           | \$       | <del> </del> |  |  |
| a M A shock in th   | ho amount of  | \$060.00 to a    | over the above    | foor is onels | end .      | <u>-</u>                         |                     | Charged                   | Þ        | <u> </u>     |  |  |
| <ul> <li>a.  A check in the amount of \$960.00 to cover the above fees is enclosed.</li> <li>b.  Please charge my Deposit Account No. 14-1140 in the amount of \$ to cover the above fees.         A duplicate copy of this form is enclosed.</li> <li>c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed.</li> <li>d.  The entire content of International Application No. PCT/GB02/05789 and any U.S. and foreign application(s) corresponding thereto, and GB 0200354.9, referred to in this application is/are hereby incorporated by reference in this application.</li> <li>NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</li> <li>CORRESPONDENCE ADDRESS</li> <li>Direct all correspondence to:</li> </ul> |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| ⊠ Cu  |   |                  | Number Bar        | $\downarrow$  |            |                                  |                     |                           |          |              |  |  |
|   |   |                  |                   |               | L          | abel Here 🗡                      | 1                   |                           |          |              |  |  |
| Type Customer Number here   |   |                  |                   |               |            |                                  |                     |                           | 4        | /            |  |  |
| HH-H  |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| Telephone: (703) 816-4000 SCS:ecb SCS:ecb SAME  |   |                  |                   |               |            |                                  |                     | · Jekn                    | ~_       |              |  |  |
|   |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| \   |   |                  |                   |               |            |                                  |                     |                           |          |              |  |  |
| 27,393 U  |   |                  |                   |               |            |                                  |                     | July 6, 200               | 4        |              |  |  |
| REGISTRATION NUMBE  |   |                  |                   |               |            |                                  |                     |                           | ER Date  |              |  |  |